Life Sciences 11 Phylum Cnidaria Lab Name:

**Purpose:** To observe the structure of Cnidarians

**Materials:**

Microscope and cnidocyte, Hydra, Obelia colony and medusa slides

Portuguese Man-O-War specimen

**Method:**

1. Draw and label a Hydra from a slide.
2. Do a drawing of a tentacle with cnidocytes visible.
3. Draw and label the Obelia colony.
4. Draw the Obelia medusa.
5. Observe the Portuguese Man-O-War specimen.

**Observations**

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| --- | --- |
| Hydra | Tentacle – Cnidocytes visible |
| Obelia Colony | Obelia Medusa |

**Analysis:**

1. What type of life cycle do Cnidarians display and what is the function of each “generation” within the life cycle?
2. What is the difference between a cnidocyte and a nematocyst?
3. How does a nematocyst fire?
4. In Obelia, describe the role of each type of polyp and the medusa.
5. How is the Portuguese Man-O-War similar and different to Hydra and Obelia?